

**From:** Separation Science <elearning.solutions@sepscience.com>  
**Sent:** Monday, October 17, 2011 1:08 PM  
**To:** Hanchett, James (DPH)  
**Subject:** Today in Separation Science - Latest Issue of HPLC Solutions


17 October, 2011

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John Dolan's  
Update

Separation Science e-Learning

## HPLC Solutions

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### Issue 80

#### Column Abuse, 3: Oops, I dropped it!

What happens if your favourite HPLC column accidentally rolls off the bench and lands on the concrete floor of the lab? Is it ruined? There was a time when HPLC columns were much more delicate than they are today, and any physical shock risked column damage.

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### Issue 79

#### Column Abuse, 2: Column Storage

A reader asked me if she was in danger of shortening the lifetime of an HPLC column by removing it after each batch of samples and storing it. This also raised the related question about expectations of shorter column lifetimes if the same instrument was used for multiple methods, each with a different column.

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### Issue 78

#### Column Abuse, 1: Does Air Damage the Column?

I recently had an enquiry from a reader of *HPLC Solutions* that comes up with some regularity in the HPLC troubleshooting classes that I teach: "Will I damage the column by getting air in it?" Let's consider the possibilities for a moment. One possible source of air is injection from an empty vial. Another source is forgetting to put the plugs in the ends of the column when storing it. A third possibility is that you pump the column dry if you run out of mobile phase. What happens in each of these cases?

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
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If you have an analytical question for John Dolan...

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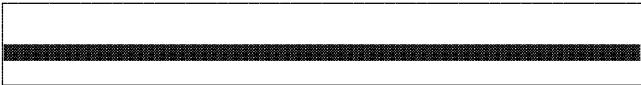
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